

DC COMPONENTS CO., LTD.

DISCRETE SEMICONDUCTORS

LB120A

TECHNICAL SPECIFICATIONS OF NPN TRIPLE DIFFUSED PLANAR TRANSISTOR

Description

Designed for use in high-voltage switching applications.

Pinning

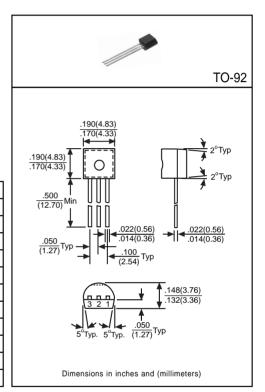
1 = Emitter

2 = Collector

3 = Base

Absolute Maximum Ratings(TA=25°C)

Characteristic	Symbol	Rating	Unit
Collector-Base Voltage	Vсво	600	V
Collector-Emitter Voltage	VCEO	400	V
Emitter-Base Voltage	Vево	6	V
Collector Current (DC)	Ic	100	mΑ
Collector Current (pulse)	Ic	200	mA
Base Current (DC)	Ів	20	mΑ
Base Current (pulse)	Ів	40	mΑ
Total Power Dissipation	Po	0.8	W
Total Power Dissipation(Tc=25°C)	Po	7	W
Junction Temperature	TJ	+150	°C
Storage Temperature	Tstg	-55 to +150	°C



Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified)

Characteristic	Symbol	Min	Тур	Max	Unit	Test Conditions
Collector-Base Breakdown Volatge	ВУсво	600	-	-	V	Ic=100μA, IE=0
Collector-Emitter Breakdown Voltage	BVceo	400	-	1	V	Ic=10mA, IB=0
Emitter-Base Breakdown Volatge	ВУЕВО	5	-	-	V	IE=10μA, IC=0
Collector Cutoff Current	Ісво	1	-	10	μΑ	Vcb=550V, IE=0
	ICEO	-	-	10	μΑ	VCE=400V, IB=0
Emitter Cutoff Current	ІЕВО	-	-	10	μΑ	VEB=6V, IC=0
Collector-Emitter Saturation Voltage ⁽¹⁾	VCE(sat)1	-	-	0.4	V	Ic=50mA, IB=10mA
	VCE(sat)2	-	-	0.75	V	Ic=100mA, IB=20mA
Base-Emitter Saturation Voltage ⁽¹⁾	VBE(sat)		-	1	V	Ic=50mA, Iв=10mA
DC Current Gain ⁽¹⁾	hFE1	8	-	-	-	Ic=10mA, VcE=10V
	hFE2	10	-	36	-	Ic=50mA, VcE=10V

(1)Pulse Test: Pulse Width ≤ 380µs, Duty Cycle ≤ 2%